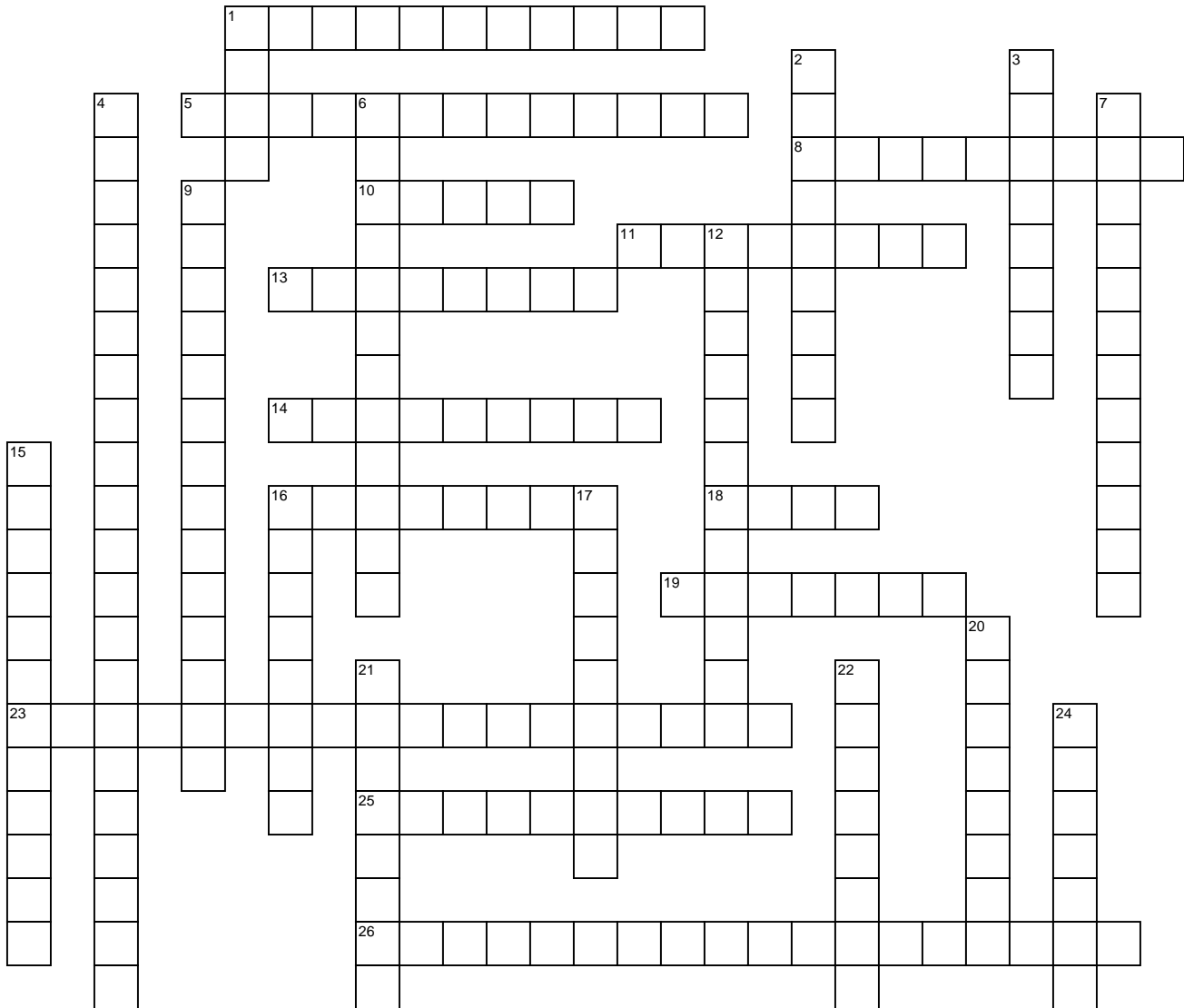


# Ch. 4 A Tour of the Cell



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## ACROSS

- 1 Cells that lack a membrane-bound nucleus are \_\_\_\_\_ cells
- 5 channels between adjacent plant cells, that form a circulatory and communication system.
- 8 Long fibers of DNA are called \_\_\_\_\_
- 10 The numerous appendages used to propelle protist; also found in the human trachea, these short hair like appendeges help to drive out foreign debris.
- 11 The DNA of a prokaryotic cell is coiled into \_\_\_\_\_
- 13 This organelle is responsible for storing calcium for use in muscle contraction
- 14 Tiny structures that make proteins
- 16 Rigid outer covering on most prokaryotes
- 18 What structure is used by prokaryotes to attach itself to surfaces?
- 19 sticky outer coat of some prokaryotes
- 23 chemical activities of the cell
- 25 the structures of cells are collectively called
- 26 Composed of the Nuclear Envelope, R-ER, S-ER, Golgi Apparatus and transport vesicles.

## DOWN

- 1 short projections that aid in attachment for prokaryotes

- 2 This organelle is responsible for manufacturing ribosomes
- 3 Long, whip-like appendage used to propell (move) sperms cells and some prokaryotic cells.
- 4 globular proteins that serve mainly to reinforce the cell shape, and anchors certain organelles (the nucleus is often held in place by a cage of these).
- 6 Straight, hollow tubes that act as track for organelle movement within the cytoplams. Best known for their ability to guide the movement of chromosomes when cells divide
- 7 an organelle that carries out cellular respiration.
- 9 Receives and modifies substances manufactured by the ER
- 12 Converts solar energy to chemical energy
- 15 Found in the heart, these channels are similar in function to the plasmodesmata - they allow the flow of small ions through, coordinating muscle contraction.
- 16 found in plant cells but not in animal cells
- 17 also known as suicide capsule, this organelle digests foreign debris and breaks down and recycles worn out cellular components
- 20 Lysosomal disease in which the lysosome lacks the enzyme needed to break down a lipid abundant in nerve cell membranes.
- 21 site of lipid synthesis
- 22 This organelle can stores waste products, poisons and water, and can house pigments designed to attract pollinating insects.
- 24 this organelle is responsible for production of proteins and membranes to be secreted